

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 73 A/R TO FILL GAPS AND FILLET EDGES
2. APPLY F/N 74 TO FAYING SURFACES
- 3 AT CUSTOMERS OPTION, INSTALL F/N 77 BY MATCH DRILLING ONTO F/N 1
- 4 INSTALL FOR 647.1301, 647.1302.
- 5 INSTALL FOR 647.1304, 647.1305.
- 6 APPLICABLE WHEN EUROCOPTER P/N 145-250014.11 IS INSTALLED WITH EUROCOPTER CABLE CUTTER FIXED PROVISIONS.
- 7 APPLICABLE WHEN REPLACING EUROCOPTER P/N 145-250074.11
- 8 INSTALL WITH:
647.1304
647.1305
647.1307
647.1308

| REVISIONS | | | |
|-----------|--|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| | LAST PROTOTYPE REVISION: PR3 | | N/C |
| N/C | INITIAL RELEASE | 06/05/09 | P. BRAVO |
| A | INCORPORATED ECN 02963, 03020, 03048 | 01/25/11 | P. BRAVO |
| B | INCORPORATED ECN 03919 | 07/05/13 | P. BRAVO |
| C | INCORPORATED ECN 04059 | 08/13/13 | P. BRAVO |
| D | INCORPORATED ECN'S 04485, 045921 & 04976 | 06/17/15 | P. BRAVO |
| E | INCORPORATED ECN 05950 | 03/30/18 | P. BRAVO |

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|--|-------|-------|
| 1 | | 1 | 1 | | 1 | 1 | | 1 | 14 | 647.1817 | SUPPORT, RH | | |
| 1 | | 1 | 1 | | 1 | 1 | | 1 | 13 | 647.1912 | BRACKET, LH | | |
| 1 | | 1 | 1 | | 1 | 1 | | 1 | 12 | 647.1911 | BRACKET, RH | | |
| | 8 | 8 | | 8 | 8 | | 8 | 8 | 11 | 647.0112 | STRUT BRACKET | | |
| | | | | | | | 1 | 1 | 10 | 647.2110 | LOWER RAIL | | |
| | | | | | | 1 | | 1 | 9 | 647.2111 | UPPER RAIL | | |
| | 1 | 1 | | 1 | 1 | | 1 | 1 | 8 | 647.1610 | WIPER DEFLECTOR, FWD | | |
| | 1 | 1 | | 1 | 1 | | 1 | 1 | 7 | 647.1601 | WIPER DEFLECTOR ASSY, AFT | | |
| | | | | | | | 2 | 2 | 6 | 647.1701 | SKID DEFLECTOR ASSY | | |
| 1 | | 1 | 1 | | 1 | 1 | | 1 | 5 | 647.3201 | GROUNDING CABLE ASSY | | |
| 1 | | 1 | 1 | | 1 | 1 | | 1 | 4 | 647.2201 | CROSS ASSY | | |
| 1 | | 1 | 1 | | 1 | 1 | | 1 | 3 | 647.1602 | DOUBLER ASSY | | |
| | 1 | 1 | | 1 | 1 | | 1 | 1 | 2 | 647.1402 | CUTTER ASSY (LOWER) | | |
| | | | | | | | 1 | 1 | 1 | 647.1401 | CUTTER ASSY (UPPER) | | |
| X | | | | | | | | | | 647.1309 | EC145 T2 FIXED PROVISIONS KIT | | |
| | X | | | | | | | | | 647.1308 | EC145 T2 REMOVABLE PROVISIONS KIT | | |
| | | X | | | | | | | | 647.1307 | EC145T2 CABLE CUTTERS KIT | | |
| | | | X | | | | | | | 647.1306 | FIXED PROVISIONS KIT U CHANNEL | | |
| | | | | X | | | | | | 647.1305 | REMOVABLE PROVISIONS KIT U CHANNEL | 6 | |
| | | | | | X | | | | | 647.1304 | EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE | 6 | |
| | | | | | | X | | | | 647.1303 | FIXED PROVISIONS KIT | | |
| | | | | | | | X | | | 647.1302 | REMOVABLE PROVISIONS KIT | | |
| | | | | | | | | X | | 647.1301 | EC145 CABLE CUTTERS KIT | | |
| .1309 | .1308 | .1307 | .1306 | .1305 | .1304 | .1303 | .1302 | .1301 | FIND # | PART # | DESCRIPTION | MAT'L | SPEC. |

BOM Table (Restructured)

UNDER REVIEW
ECR: HB ECR 144

| | | | |
|---------------|-----------|---|--|
| QTY | | PARTS LIST | |
| NEXT ASSY (S) | | ORIGINAL DATE IMO-DA-YR: 07/06/09 | |
| | | DRAWN BY R. ROSANO | CHECKER D. BARKER |
| | | DRAWING APPROVAL P. BRAVO 08/05/09 | |
| | | CONTRACT NO. | |
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5° | |
| | | DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE | 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)724-5300 |
| | | EC145 CABLE CUTTERS KIT | |
| SIZE | CAGE CODE | DWG. NO. | REV. |
| B | 07M26 | 647.1300 | E |
| SCALE NONE | | SHEET 1 OF 10 | |


1

3

6

1

| | | | | | | |
|----|----|----|----|----|----|----|
| 3 | | 3 | 3 | | 3 | 3 |
| | 3 | 3 | | 3 | 3 | |
| 18 | | 18 | 18 | | 18 | 18 |
| | 4 | 4 | | 4 | 4 | |
| 10 | | 10 | 10 | | 10 | 10 |
| 2 | | 2 | 2 | | 2 | 2 |
| 1 | | 1 | 1 | | 1 | 1 |
| | 2 | 2 | | 2 | 2 | |
| | 12 | 12 | | 12 | 12 | |
| | 8 | 8 | | 8 | 8 | |
| | 4 | 4 | | 4 | 4 | |
| 2 | | 2 | 2 | | 2 | 2 |
| 4 | | 4 | 4 | | 4 | 4 |
| 4 | | 4 | 4 | | 4 | 4 |
| 13 | | 13 | 13 | | 13 | 13 |
| 4 | | 4 | 4 | | 4 | 4 |
| 1 | | 1 | 1 | | 1 | 1 |
| 1 | | 1 | 1 | | 1 | 1 |
| 2 | | 2 | 2 | | 2 | 2 |
| 1 | | 1 | 1 | | 1 | 1 |
| 1 | | 1 | 1 | | 1 | 1 |
| 1 | | 1 | 1 | | 1 | 1 |

| | | | | |
|---|---|-----------|---|---------------|
| ORIGINAL DATE (MO-DA-YR) 07/06/09 |  | | 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 | |
| DRAWN BY R. ROSANO | | | CHECKER D. BARKER | |
| DRAWING APPROVAL P. BRAVO 08/05/09 | AFICAL INDUSTRIES, INC. (aka DART AEROSPACE) | | | |
| CONTRACT No. | EC145 CABLE CUTTERS KIT | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.03 2 PLACE DECIMALS ±.010 ANGLES ±.5° | SIZE | CAGE CODE | DWG. NO. | REV. |
| | B | 07M26 | 647.1300 | E |
| | SCALE NONE | | | SHEET 2 OF 10 |

1 2 3 4 5 6 7 8


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| | | | | | | | | | | | | | |
|---------|-------|---------|---------|-------|---------|---------|-------|---------|--------|----------|-------------------------------|-------------------|-------|
| | 2 | 2 | | | | | | | 89 | 647.1703 | T2 SKID DEFLECTOR ASSY | | |
| | 8 | 8 | | | | | | | 88 | 601.3812 | LOCK TAB | LN9023A8-1.4544.9 | |
| | | | | 2 | 2 | | | | 87 | 647.1702 | SKID DEFLECTOR ASSY | △7 | |
| | 1 | 1 | | 1 | 1 | | | | 86 | 647.2113 | LOWER RAIL (U CHANNEL KIT) | | |
| | | | | 8 | 8 | | | | 85 | 601.3655 | WASHER | LN9025-0820K | |
| | 8 | 8 | | 8 | 8 | | | | 84 | 601.3654 | SCREW | LN9037-08018 | |
| 1 | | 1 | 1 | | 1 | | | | 83 | 647.2112 | UPPER U CHANNEL | | |
| | 8 | 8 | | 8 | 8 | | | | 82 | 601.3653 | WASHER | 93475A270 | |
| | 4 | 4 | | 4 | 4 | | | | 81 | 601.3652 | LOCKNUT | 93625A300 | |
| | 4 | 4 | | 4 | 4 | | | | 80 | 601.3651 | SCREW | 91292A080 | |
| | 1 | 1 | | 1 | 1 | | | | 79 | 647.1403 | CUTTER ASSY (UPPER U CHANNEL) | | |
| | 5 | 5 | | 5 | 5 | | | | 78 | 601.3650 | BOLT | AN3-15A | |
| REF | REF | REF | REF | REF | REF | REF | REF | REF | 77 | 647.5701 | GPS MOUNT KIT | △3 | |
| 2 | | 2 | 2 | | 2 | 2 | | 2 | 76 | 601.1954 | SCREW | MS27039-1-17 | |
| | 2 | 2 | | 2 | 2 | | 2 | 2 | 75 | 647.2010 | UPPER STRUT | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 74 | 601.2045 | RIV | LOCTITE 598 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 73 | 600.1012 | SEALANT | PR-1425 CLASS B | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 72 | 600.0991 | MAGNOBOND 6398 PART B | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 71 | 600.0990 | MAGNOBOND 6398 PART A | | |
| 4 | | 4 | 4 | | 4 | 4 | | 4 | 70 | 601.3012 | SCREW | MS27039-1-15 | |
| 2 | | 2 | 2 | | 2 | 2 | | 2 | 69 | 601.3004 | CAMLOC STUD | | |
| 2 | | 2 | 2 | | 2 | 2 | | 2 | 68 | 601.3005 | CAMLOC RETAINER | | |
| 2 | | 2 | 2 | | 2 | 2 | | 2 | 67 | 601.3006 | CAMLOC RECEPTACLE | | |
| 3 FT. | | 3 FT. | 3 FT. | | 3 FT. | 3 FT. | | 3 FT. | 66 | 601.3011 | P-SEAL | | |
| 1.1 FT. | | 1.1 FT. | 1.1 FT. | | 1.1 FT. | 1.1 FT. | | 1.1 FT. | 65 | 601.3007 | GROMMET | MS21266-2N | |
| 2 | | 2 | 2 | | 2 | 2 | | 2 | 64 | 601.3008 | INSERT | NAS1834C3-300 | |
| 12 | | 12 | 12 | | 12 | 12 | | 12 | 63 | 601.2364 | RIVET | CR3213-4-8 | |
| 16 | | 16 | 16 | | 16 | 16 | | 16 | 62 | 601.2468 | RIVET | CR3213-4-7 | |
| 11 | | 11 | 11 | | 11 | 11 | | 11 | 61 | 601.2991 | RIVET | CR3213-4-6 | |
| 2 | | 2 | 2 | | 2 | 2 | | 2 | 60 | 601.1039 | RIVET | CR3213-4-2 | |
| 8 | | 8 | 8 | | 8 | 8 | | 8 | 59 | 601.1183 | RIVET | CR3213-4-5 | |
| 22 | | 22 | 22 | | 22 | 22 | | 22 | 58 | 601.0790 | RIVET | CR3213-4-3 | |
| 8 | | 8 | 8 | | 8 | 8 | | 8 | 57 | 601.2995 | RIVET | CR3213-6-6 | |
| 4 | | 4 | 4 | | 4 | 4 | | 4 | 56 | 601.1915 | RIVET | CR3213-4-4 | |
| 12 | | 12 | 12 | | 12 | 12 | | 12 | 55 | 601.2207 | NUTPLATE RIVET | CCR264SS-3-03 | |
| 4 | | 4 | 4 | | 4 | 4 | | 4 | 54 | 601.1983 | NUTPLATE RIVET | CCR274SS-3-03 | |
| 12 | | 12 | 12 | | 12 | 12 | | 12 | 53 | 601.2980 | NUTPLATE RIVET | CCR264SS-3-04 | |
| 12 | | 12 | 12 | | 12 | 12 | | 12 | 52 | 600.0795 | NUTPLATE | MS21047-3 | |
| .1309 | .1308 | .1307 | .1306 | .1305 | .1304 | .1303 | .1302 | .1301 | FIND # | PART # | DESCRIPTION | MAT'L | SPEC. |

BOM Table(Restructured)

ORIGINAL DATE
(MO-DA-YR) 07/06/09
DRAWN BY
R. ROSANO
CHECKER
D. BARKER
DRAWING APPROVAL
P. BRAVO
07/06/09
CONTRACT NO.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±.5°



3030 ENTERPRISE CT.,
SUITE A
VISTA, CA. 92081
(760)-724-5300

APICAL INDUSTRIES, INC.
dba DART AEROSPACE

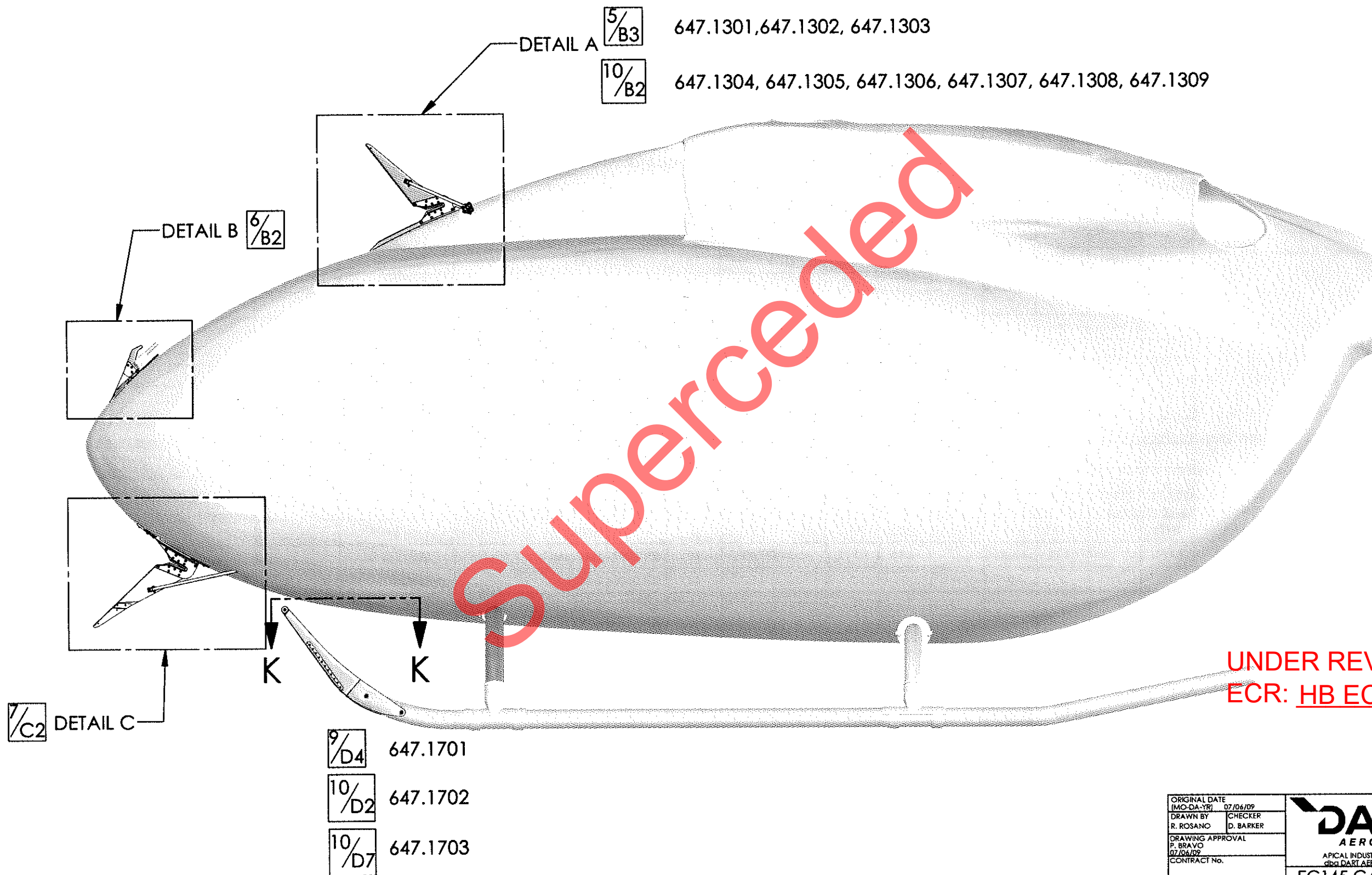
EC145 CABLE CUTTERS KIT

| | | | |
|------------|-----------|---------------|------|
| SIZE | CAGE CODE | DWG. NO. | REV. |
| B | 07MZ6 | 647.1300 | E |
| SCALE NONE | | SHEET 3 OF 10 | |

UNDER REVIEW
ECR: HB ECR 144

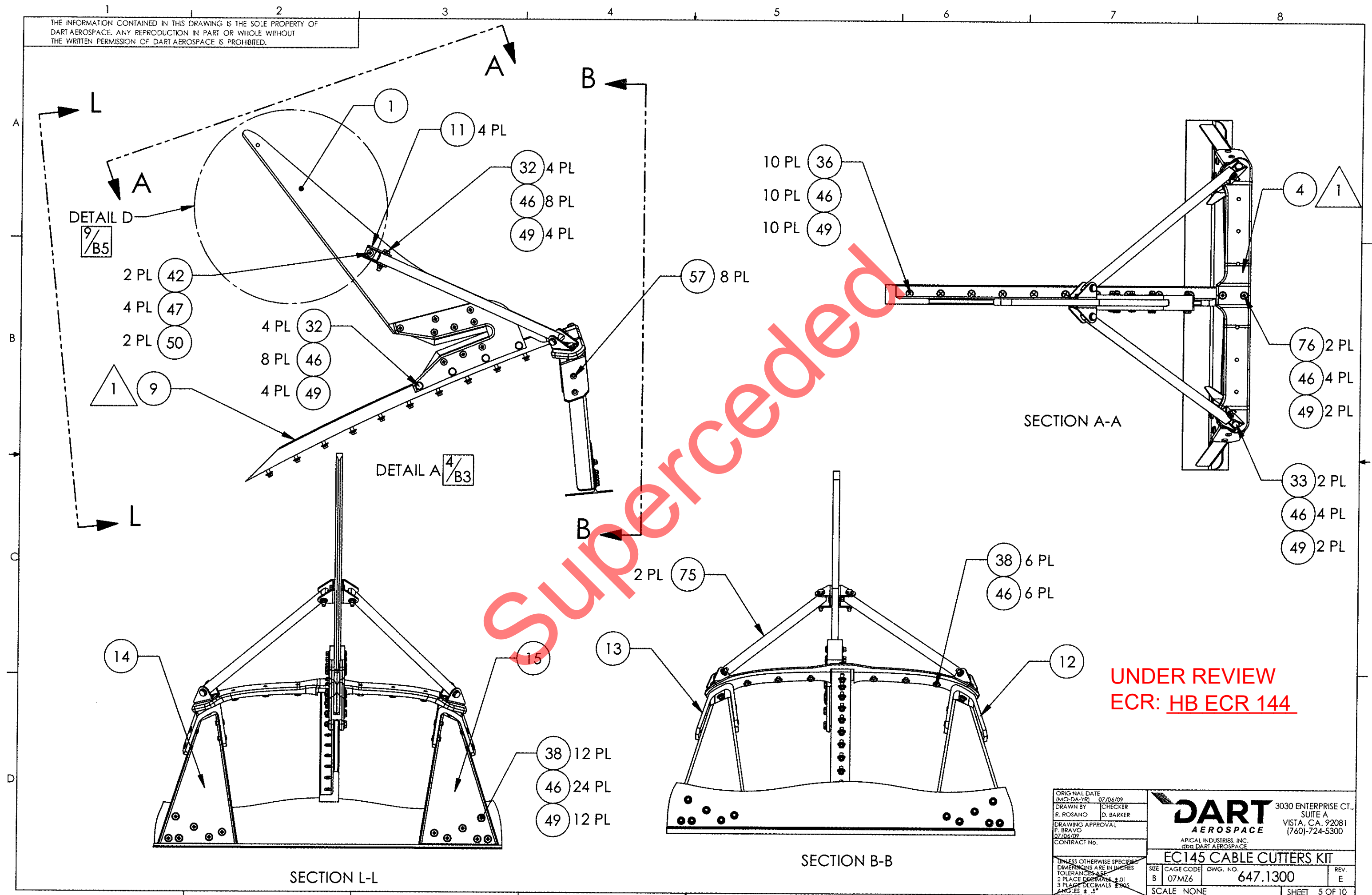
1 2 3 4 5 6 7 8

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| | | | |
|---|--|---|--------------------|
| ORIGINAL DATE (MO-DA-YR) 07/06/09 | | DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 | |
| DRAWN BY R. ROSANO | | CHECKER D. BARKER | |
| DRAWING APPROVAL P. BRAVO 07/06/09 | | APICAL INDUSTRIES, INC. dba DART AEROSPACE | |
| CONTRACT NO. | | EC145 CABLE CUTTERS KIT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5° | | SIZE B | CAGE CODE 07M26 |
| | | DWG. NO. 647.1300 | REV. E |
| | | SCALE NONE | SHEET 4 OF 10 |

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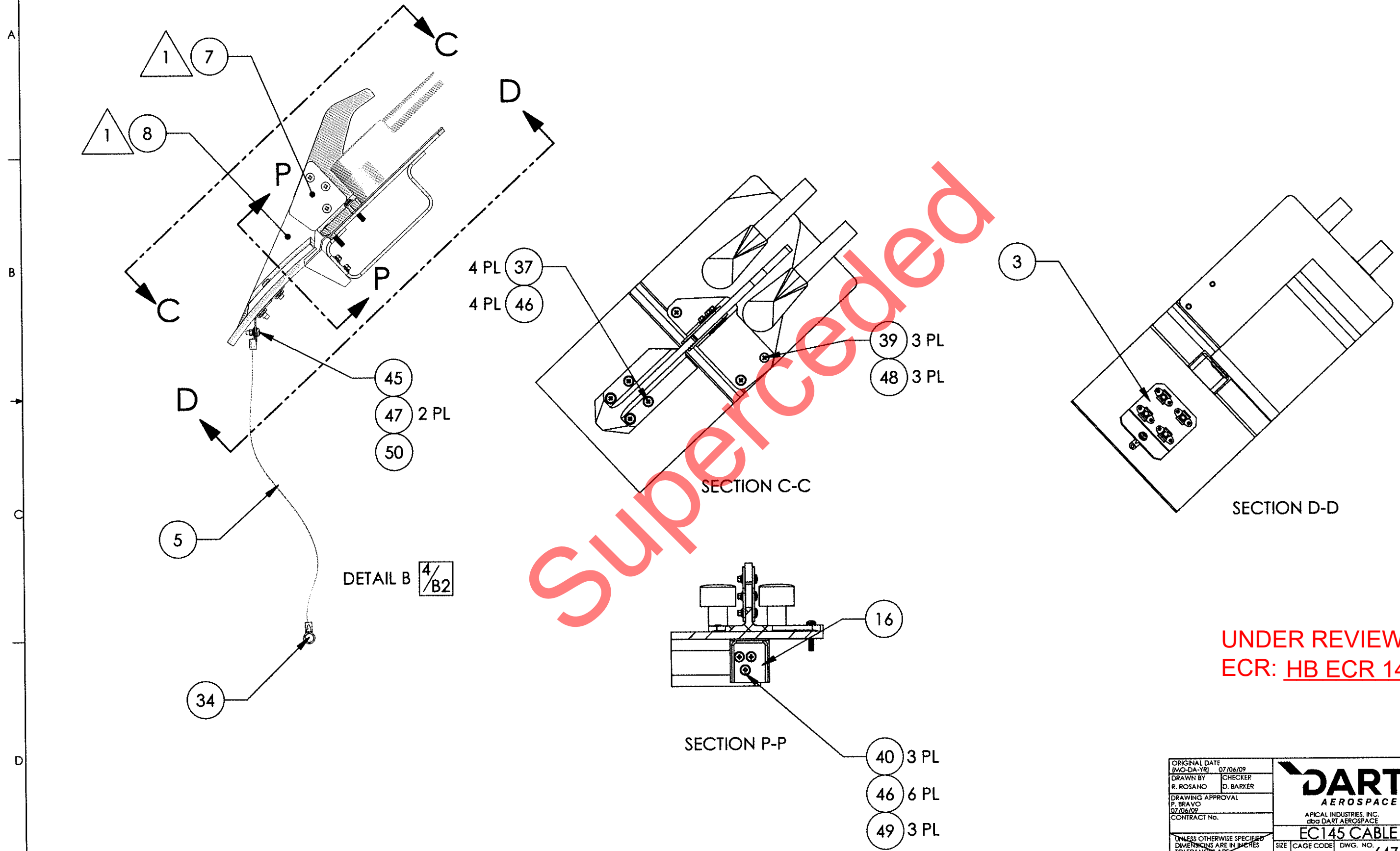


UNDER REVIEW
ECR: HB ECR 144

| | | | | | |
|---|----------------------|---|---|----------------------|---------------|
| ORIGINAL DATE IMC-DA-YR3 | 07/06/09 |  | 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 | | |
| DRAWN BY P. ROSANO | CHECKER D. BARKER | | | | |
| DRAWING APPROVAL P. BRAVO | 07/06/09 | APICAL INDUSTRIES, INC. dba DART AEROSPACE | | | |
| CONTRACT NO. | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS ±.01 3 PLACES DECIMALS ±.005 ANGLES ±.5° | | EC145 CABLE CUTTERS KIT | | | |
| | | SIZE B | CAGE CODE 07MZ6 | DWG. NO. 647.1300 | REV. E |
| | | CABLE NONE | | | SHEET 5 OF 10 |
| | | | | | |

1 2 3 4 5 6 7 8

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UNDER REVIEW
ECR: HB ECR 144

| | | | |
|---|-----------|---|----------------------|
| ORIGINAL DATE (MO-DA-YR) 07/06/09 | | 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 | |
| DRAWN BY R. ROSANO | | CHECKER D. BARKER | |
| DRAWING APPROVAL P. BRAVO 07/06/09 | | APICAL INDUSTRIES, INC. dba DART AEROSPACE | |
| CONTRACT NO. | | EC145 CABLE CUTTERS KIT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5° | SIZE B | CAGE CODE 07MZ6 | DWG. NO. 647.1300 |
| SCALE NONE | | REV. E | |
| SHEET | | 6 OF 10 | |

1 2 3 4 5 6 7 8

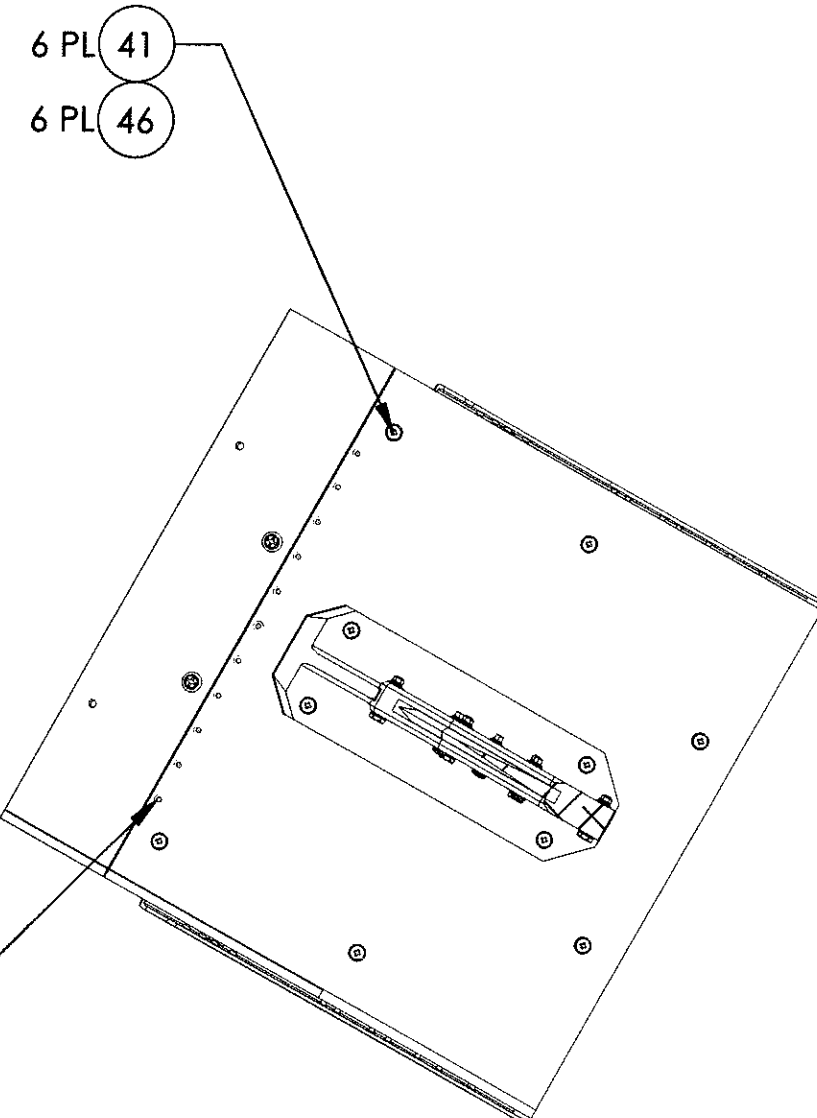
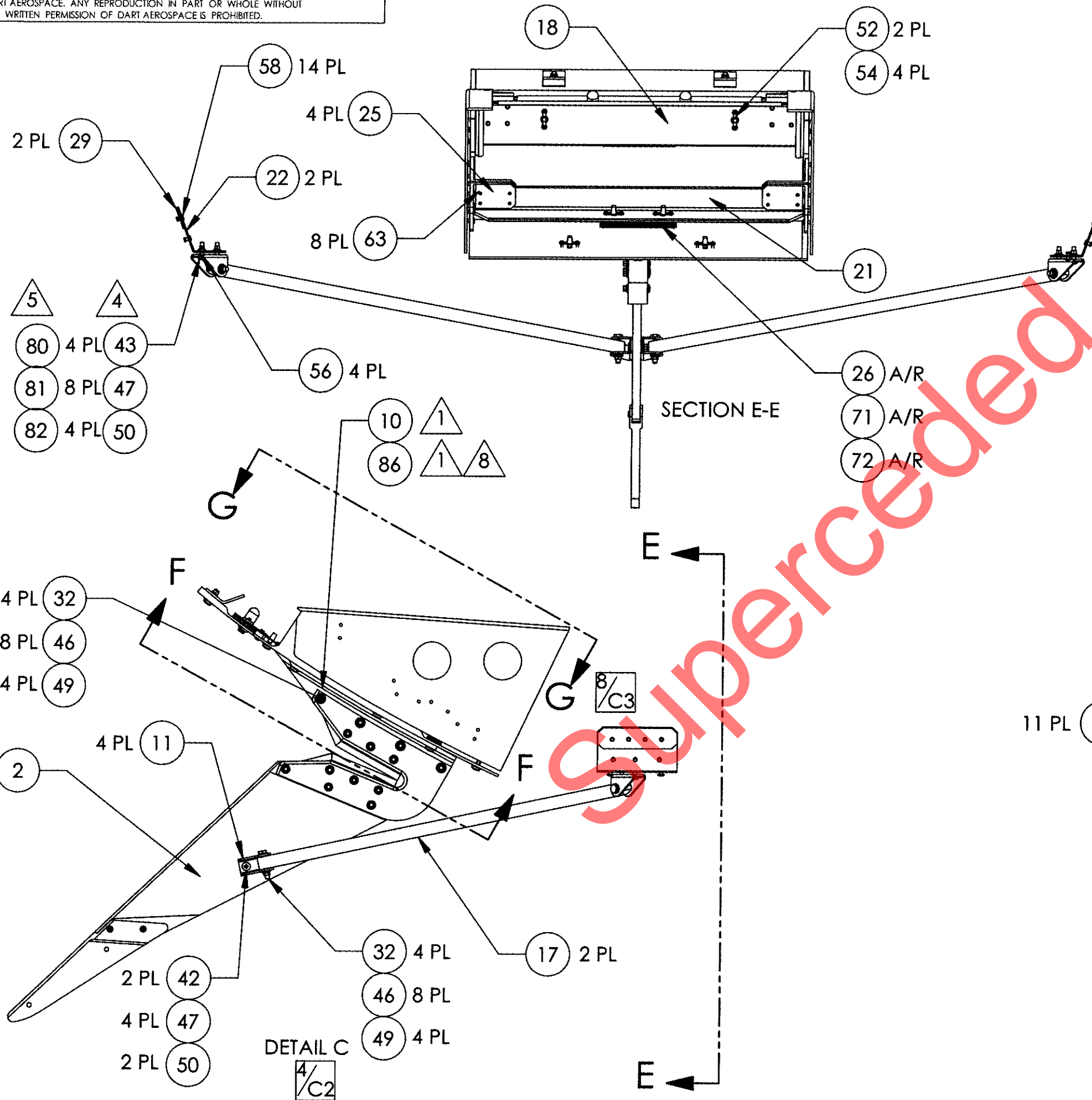
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A

B

C

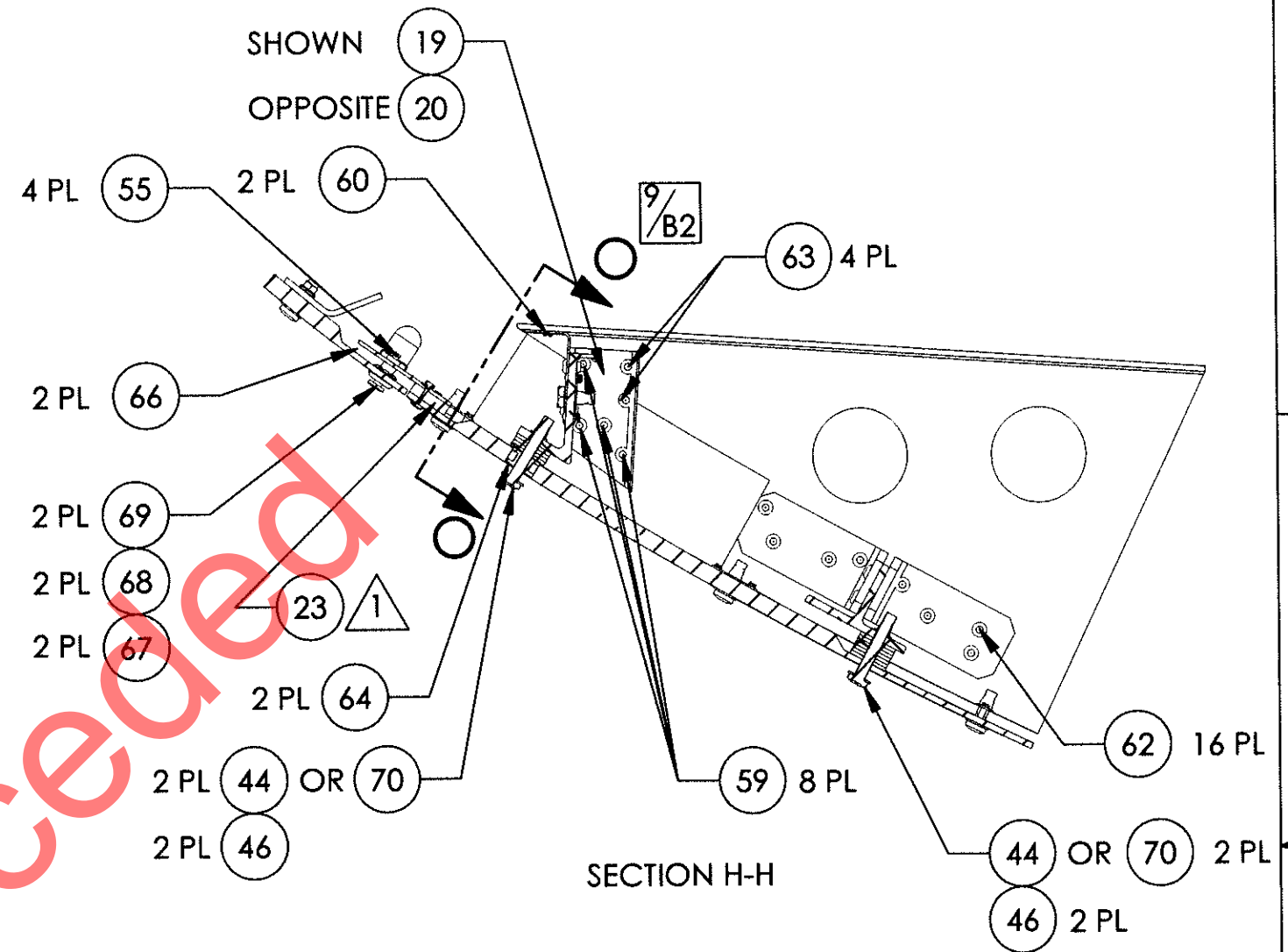
D




UNDER REVIEW
ECR: HB ECR 144

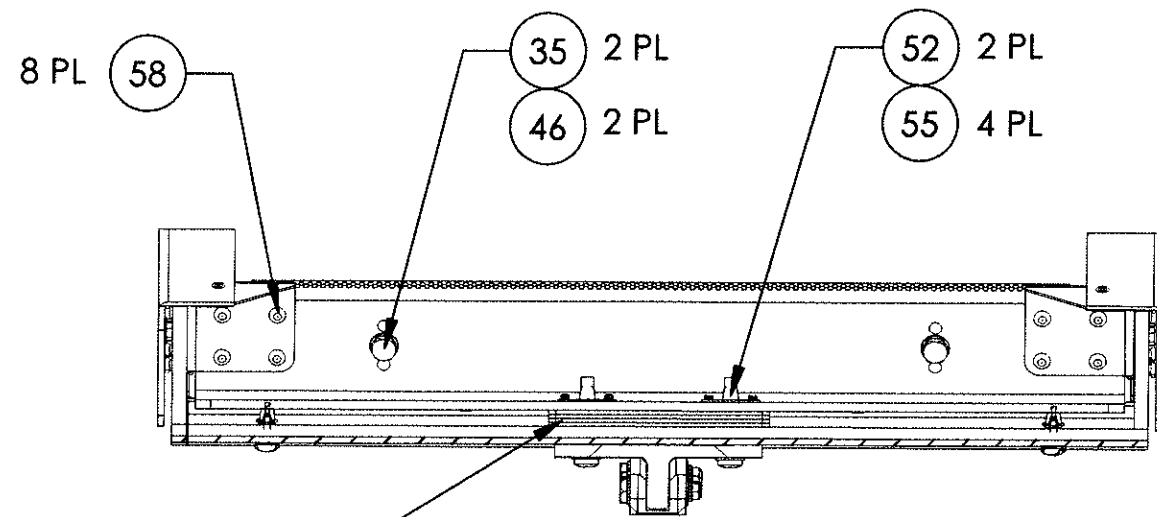
| | | | |
|--|--------------------|---|---------------|
| ORIGINAL DATE [MO-DA-YR] 07/06/09 | | 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 | |
| DRAWN BY R. ROSANO | | CHECKER D. BARKER | |
| DRAWING APPROVAL P. BRAVO 07/06/09 | | APICAL INDUSTRIES, INC. dba DART AEROSPACE | |
| CONTRACT NO. | | EC145 CABLE CUTTERS KIT | |
| SIZE B | CAGE CODE 07MZ6 | DWG. NO. 647.1300 | REV. E |
| SCALE NONE | | | SHEET 7 OF 10 |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ± 5°



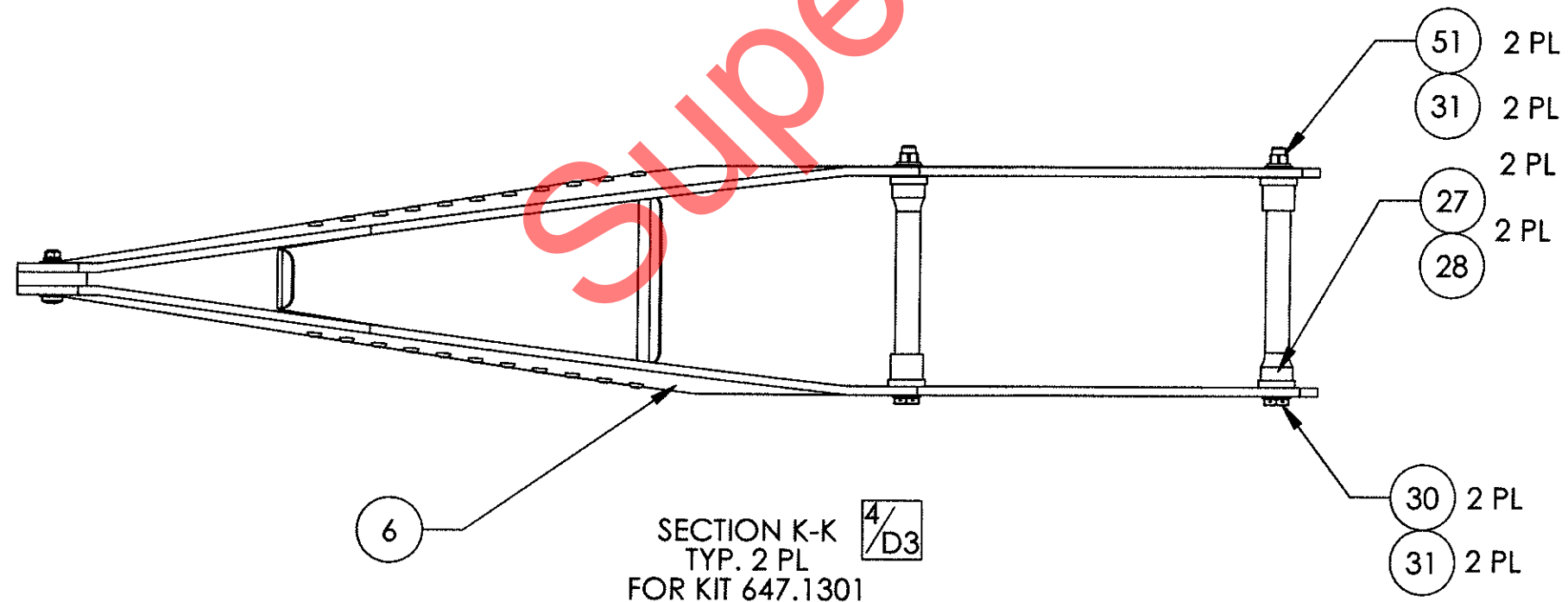
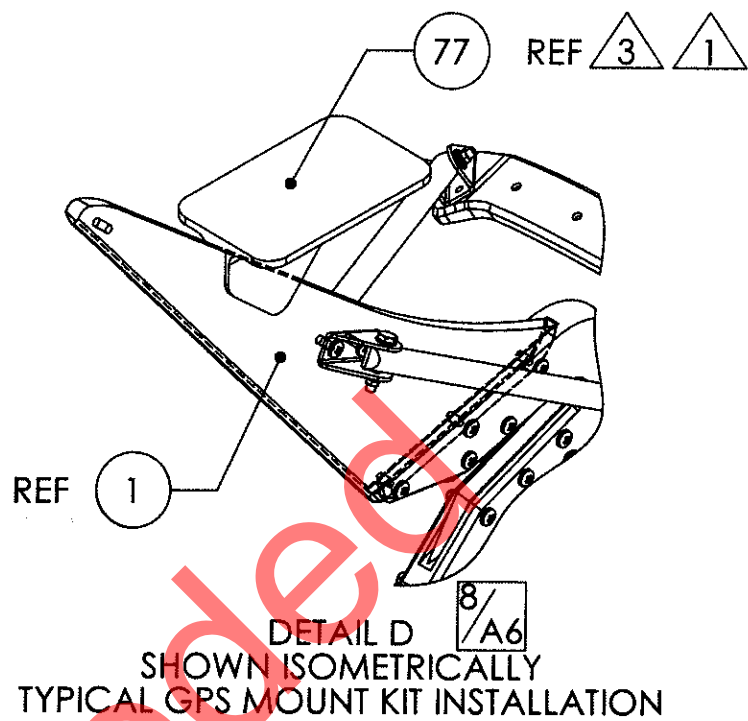
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|--|---|--------------------|--|-----------|
| ORIGINAL DATE (MM-DD-YY) 07/06/09 |  | | 3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 (760)-724-5300 | |
| DRAWN BY R. ROSANO | | | CHECKER D. BARKER | |
| DRAWING APPROVAL P. BRAVO 07/06/09 | APICAL INDUSTRIES, INC. dba DART AEROSPACE | | | |
| CONTRACT No. | EC145 CABLE CUTTERS KIT | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.001 3 PLACE DECIMALS ±.005 ANGLES ±.5° | SIZE B | CAGE CODE 07MZ6 | DWG. NO. 647.1300 | REV. E |
| | SCALE NONE | | SHEET 8 OF 10 | |

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A/R (26)
A/R (71)
A/R (72)

SECTION O-O $\frac{8}{A6}$

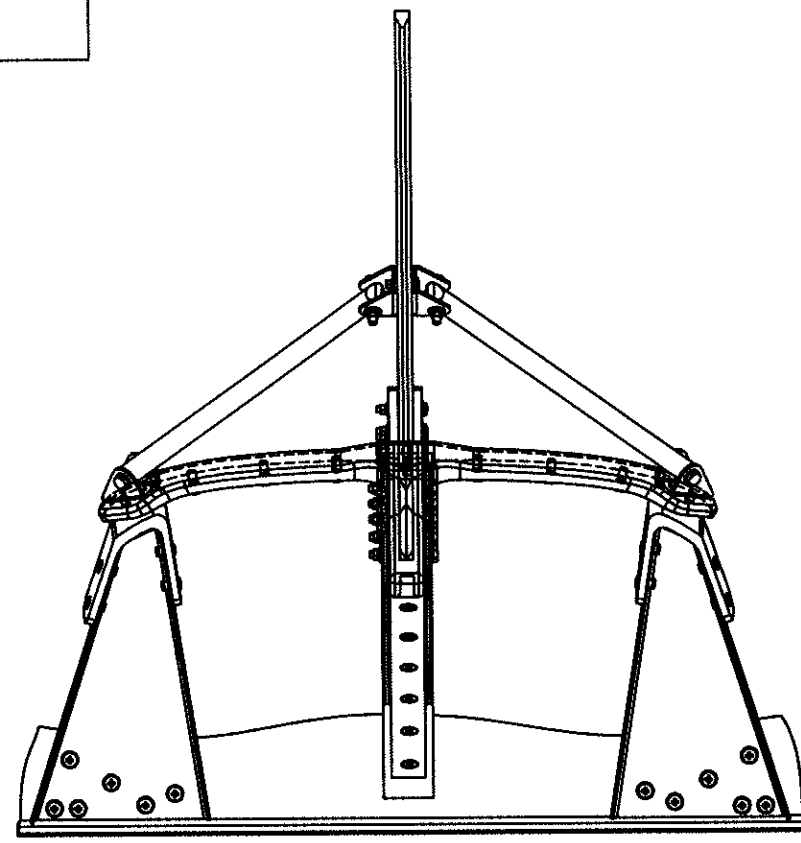


INBOARD
UNDER REVIEW
ECR: HB ECR 144

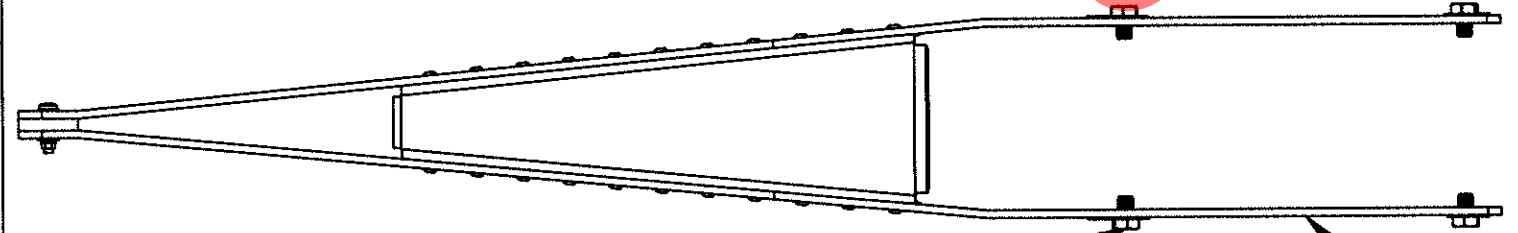
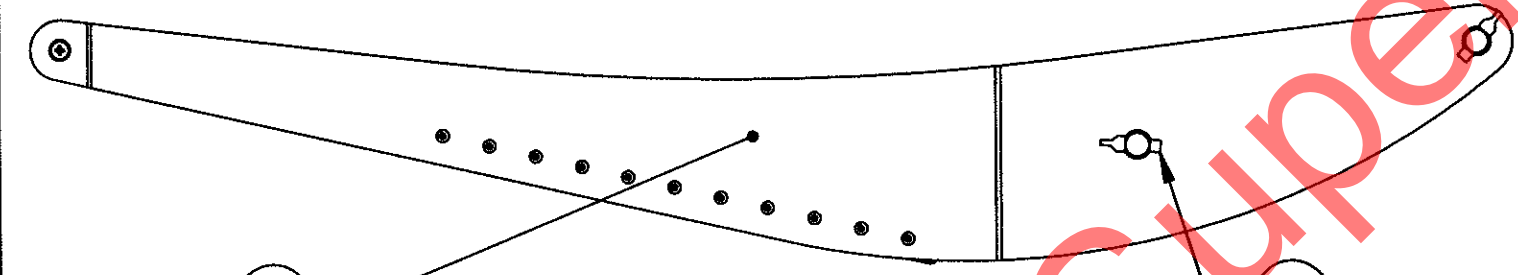
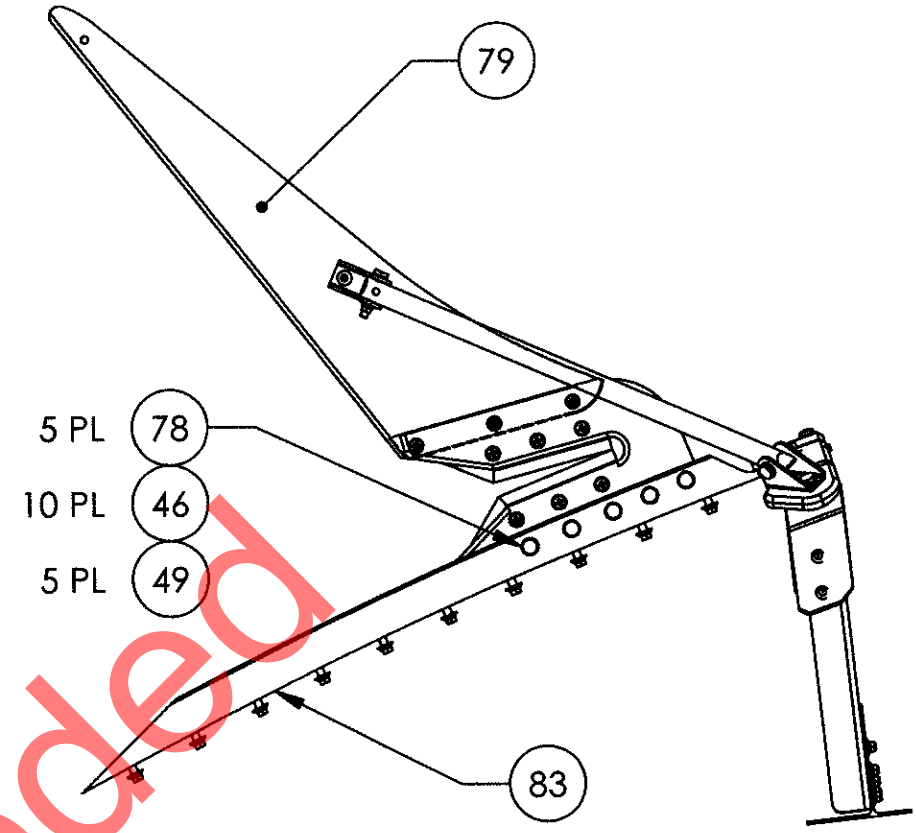
| | | | |
|--|--------------------|---|---------------|
| ORIGINAL DATE (MO-DA-YR) 07/06/09 | | 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 | |
| DRAWN BY R. ROSANO | | CHECKER D. BARKER | |
| DRAWING APPROVAL P. BRAVO 07/06/09 | | APICAL INDUSTRIES, INC. DART AEROSPACE | |
| CONTRACT NO. | | EC145 CABLE CUTTERS KIT | |
| SIZE B | CAGE CODE 07MZ6 | DWG. NO. 647.1300 | REV. E |
| SCALE NONE | | | SHEET 9 OF 10 |

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS $\pm .01$
3 PLACE DECIMALS $\pm .005$
ANGLES $\pm .5^\circ$

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DETAIL A
WITH U CHANNEL $\frac{4}{B3}$



647.1702
DETAIL K
ALTERNATE CONFIGURATION
FOR P/N 647.1303 $\frac{4}{D3}$

UNDER REVIEW
ECR: HB ECR 144

| | | | | | |
|---|--|-----------------------|--------------------|---|-----------|
| ORIGINAL DATE (MO-DA-YR) 07/06/09 | | DART AEROSPACE | | 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 | |
| DRAWN BY R. ROSANO | | CHECKER D. BARKER | | APICAL INDUSTRIES, INC. d/b/a DART AEROSPACE | |
| DRAWING APPROVAL P. BRAVO 07/06/09 | | CONTRACT NO. | | EC145 CABLE CUTTERS KIT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$ | | SIZE B | CAGE CODE 07MZ6 | DWG. NO. 647.1300 | REV. E |
| SCALE NONE | | | | SHEET 10 OF 10 | |